

# PATENT SPECIFICATION

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## (54) IMPROVED LIGHT FITTING

(71) I, GORDON BARCLAY, a British Subject, of 19, Monkswell Drive, Liverpool, 15, Lancashire, do hereby declare the invention, for which I pray that a patent may be granted to me, and the method by which it is to be performed, to be particularly described in and by the following statement:—

The present invention relates to a light fitting.

According to the present invention there is provided a light fitting comprising a transparent or translucent sleeve having a plurality of differently-coloured regions, said sleeve being rotatably mounted along its longitudinal axis about a light source, the translucent sleeve being mounted in a casing having an elongate aperture formed along its length which aperture serves to channel illumination originating from the light source, a part of the sleeve projecting through the aperture, a pair of reflectors being provided adjacent the long edges of the aperture, the reflectors tapering outwardly from the aperture to the longitudinal edges of the casing.

Conveniently a diffuser is provided on the outside of the casing and located over the aperture to totally enclose the transparent or translucent sleeve within the casing.

In a preferred embodiment of the invention the sleeve is of circular cross-section and is formed from a plurality of differently-coloured longitudinal strips which together from the sleeve, the diffuser, reflectors and the part of the rotatable sleeve adjacent the aperture together defining a colour blending chamber.

The transparent or translucent sleeve may be rotated by a pair of rotatably mounted friction drive wheels which are adapted to co-operate with spaced peripheral portions thereof.

Alternatively the drive may be provided by a toothed wheel which is fixedly attached to the sleeve and driven by a toothed drive wheel connectible to the shaft of an electric motor.

Conveniently the light source comprises a fluorescent tube located within the sleeve. A semi-cylindrical reflector may be mounted above the tube to reflect light towards the aperture.

The invention will now be further described by way of example with reference to the drawing accompanying the Provisional Specification the single figure of which illustrates in cross-section a preferred embodiment of the present invention.

Referring now to the drawing, there is shown a transparent or translucent sleeve generally as 10 having a plurality of differently-coloured elongated strips 12. The sleeve 10 is mounted for rotation in end bearings (not illustrated) about a light source which is illustrated as a fluorescent tube 14. The fitting 10 is received within a casing 16 which is of substantially rectangular cross-section and includes an elongated aperture 18 through which part of the sleeve 10 projects. The sleeve 10 is rotated by a pair of flanged friction rollers 20 which are themselves rotated by an electric motor 22.

A pair of reflectors 24 extend from a long edge of the aperture 18 and taper outwardly to the longitudinal edges of a diffuser 26 which closes the lower part of the fitting. The diffuser, reflectors and the part of the rotatable sleeve adjacent the aperture together define a colour blending chamber.

In operation the fitting is attached to the ceiling of a room to be illuminated, and the electric motor 22 energised. This causes rotation of the rollers 20 which in turn rotate the sleeve 12. It will be seen that light from the fluorescent tube 14 extends radially outwardly of the tube 14 and through the translucent sleeve 12. The part of the light from the tube 14 which is to illuminate the room passes through the part of the sleeve 12 which projects into the aperture 18 and downwardly through the diffuser 26 into the room.

It has been found that a convenient and pleasant speed of rotation of the sleeve 12 is

obtained by producing a colour change every ten minutes, but the electric motor 22 may be provided with a variable speed control to enable the speed of rotation to be varied.

5 An alternative form of drive consists of a toothed wheel fixedly attached to the sleeve, for example at one end thereof and driven by a toothed drive wheel connectible to the shaft of an electric motor.

10 If desired, a semi-cylindrical reflector may be mounted above the tube to reflect the light towards the aperture.

WHAT I CLAIM IS:—

15 1. A light fitting comprising a transparent or translucent sleeve having a plurality of differently-coloured regions, said sleeve being rotatably mounted along its longitudinal axis about a light source, the translucent sleeve being mounted in a casing having an elongate aperture formed along its length which aperture serves to channel illumination originating from the light source, a part of the sleeve projecting through the aperture, a pair of reflectors being provided adjacent the long edges of the aperture, the reflectors tapering outwards from the aperture to the longitudinal edges of the casing.

20 2. A fitting as claimed in claim 1 in which a diffuser is provided on the outside of the casing and located over the aperture to totally enclose the transparent or translucent sleeve within the casing, the diffuser, reflectors and the part of the rotatable

sleeve adjacent the aperture together defining a colour blending chamber.

3. A fitting as claimed in claim 1 or 2 in which the sleeve is of circular cross-section and is formed from a plurality of differently coloured longitudinal strips which together form the sleeve. 40

4. A fitting as claimed in any one of claims 1 to 3 in which the transparent or translucent sleeve is rotatable by a pair of rotatably mounted friction drive wheels which are adapted to co-operate with spaced peripheral portions thereof. 45

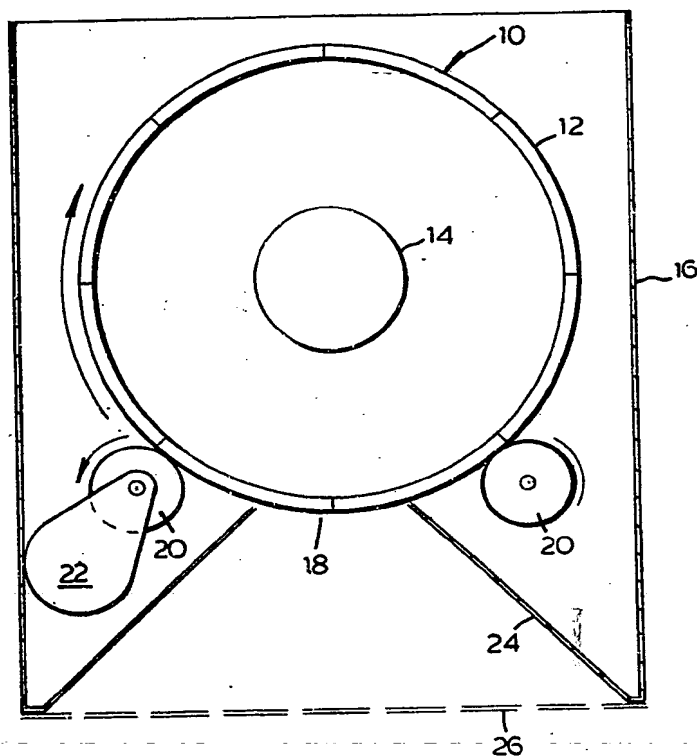
5. A fitting as claimed in any one of claims 1 to 3 in which a toothed drive wheel is fixedly attached to the sleeve and is driven by a toothed drive wheel connectible to the shaft of an electric motor. 50

6. A fitting as claimed in any one of the preceding claims in which the light source comprises a fluorescent tube located within the sleeve. 55

7. A fitting as claimed in any one of the preceding claims in which a semi-cylindrical reflector is mounted above the tube to reflect light towards the aperture. 60

8. A light fitting substantially as hereinbefore particularly described with reference to and as illustrated in the drawing accompanying the Provisional Specification. 65

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